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IN THE CLAIMS

Amended claims follow:

1. (Currently Amended) A method of executing a risk-assessment scan with a variable timeout duration which is set based on network conditions, comprising;

measuring network conditions in a network coupled between a source and a target;

executing a risk-assessment scan on the target from the source; and performing a risk-assessment scan-related timeout prior to making a determination that the target is failing to respond to the risk-assessment scan; wherein the timeout includes a variable duration which is set as a function of the measured network conditions:

wherein the risk-assessment scan is abandoned if the target fails to respond to the risk-assessment scan within the variable duration; wherein the timeout is set by adding a default value with a variable value which is set as a function of the measured network conditions; wherein the timeout is set by the following algorithm:

if Ractual is < or > Rdefault by (Rdefault * F). then $T_{\text{actual}} = T_{\text{default}} + R_{\text{notual}} * N$; else Tactual = Tdefault; and where:

Rdefault response duration,

Ractual = actual response duration,

T_{default} = default timeout value,

Tactual = actual timeout value,

F = deviation factor, and

N = normalizing factor.

- (Original) The method as recited in claim 1, wherein the network conditions
 include latency associated with communication between the source and the
 target.
- (Original) The method as recited in claim 1, wherein measuring the network conditions includes transmitting a probe signal from the source to the target utilizing the network.
- (Original) The method as recited in claim 3, wherein the probe signal
 prompts the target to send a response signal to the source utilizing the
 network.
- (Original) The method as recited in claim 4, wherein measuring the network conditions further includes receiving the response signal from the target utilizing the network.
- 6. (Original) The method as recited in claim 5, wherein measuring the network conditions further includes measuring a response duration between the transmission of the probe signal and the receipt of the response signal.
- 7. (Original) The method as recited in claim 6, wherein the timeout is set as a function of the response duration.
- 8. (Cancelled)
- 9. (Cancelled)
- (Original) The method as recited in claim 1, wherein executing the riskassessment scan includes executing a plurality of risk-assessment scan modules.
- 11. (Original) The method as recited in claim 10, wherein the timeout is performed for each of the risk-assessment scan modules.

- (Original) The method as recited in claim 1, and further comprising storing a
 result of the measurement of the network conditions.
- 13. (Cancelled)
- 14. (Currently Amended) A computer program product embodied on a computer readable medium for executing a risk-assessment scan with a variable timeout duration which is set based on network conditions, comprising:
- a) computer code for measuring network conditions in a network coupled between a source and a target;
- b) computer code for executing a risk-assessment scan on the target from the source; and
- computer code for performing a risk-assessment scan-related timeout prior to making a determination that the target is failing to respond to the riskassessment scan;
- wherein the timeout includes a variable duration which is set as a function of the measured network conditions;
- e) wherein the risk-assessment scan is abandoned if the target fails to respond to the risk-assessment scan within the variable duration; wherein the timeout is set by adding a default value with a variable value which is set as a function of the measured network conditions; wherein the timeout is set by the following algorithm:

if R_{actual} is < or > $R_{default}$ by $(R_{default} * F)$, then $T_{actual} = T_{default} + R_{actual} * N$; else $T_{actual} = T_{default}$; and where:

 $\frac{R_{\text{default}} = \text{default response duration,}}{R_{\text{notual}} = \text{actual response duration,}}$ $\frac{T_{\text{default}} = \text{default timeout value,}}{T_{\text{actual}} = \text{actual timeout value,}}$ F = deviation factor, and

N = normalizing factor.

- 15. (Original) The computer program product as recited in claim 14, wherein the network conditions include latency associated with communication between the source and the target.
- 16. (Original) The computer program product as recited in claim 14, wherein measuring the network conditions includes transmitting a probe signal from the source to the target utilizing the network.
- 17. (Original) The computer program product as recited in claim 16, wherein the probe signal prompts the target to send a response signal to the source utilizing the network.
- 18. (Original) The computer program product as recited in claim 17, wherein measuring the network conditions further includes receiving the response signal from the target utilizing the network.
- 19. (Original) The computer program product as recited in claim 18, wherein measuring the network conditions further includes measuring a response duration between the transmission of the probe signal and the receipt of the response signal.
- 20. (Original) The computer program product as recited in claim 19, wherein the timeout is set as a function of the response duration.
- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Original) The computer program product as recited in claim 14, wherein executing the risk-assessment scan includes executing a plurality of riskassessment scan modules.

- 24. (Original) The computer program product as recited in claim 23, wherein the timeout is performed for each of the risk-assessment scan modules.
- 25. (Original) The computer program product as recited in claim 14, and further comprising computer code for storing a result of the measurement of the network conditions.
- 26. (Cancelled)
- 27. (Original) The computer program product as recited in claim 14, wherein the network conditions are measured for a network segment, and the measured network conditions are used to set the timeout for a plurality of targets located on the network segment.
- 28. (Currently Amended) A system embodied on a computer readable medium for executing a risk-assessment scan with a variable timeout duration which is set based on network conditions, comprising:
- a) logic for measuring network conditions in a network coupled between a source and a target;
- b) logic for executing a risk-assessment scan on the target from the source; and
- logic for performing a risk-assessment scan-related timeout prior to making a
 determination that the target is failing to respond to the risk-assessment scan;
- d) wherein the timeout includes a variable duration which is set as a function of the measured network conditions;
- e) wherein the risk-assessment scan is abandoned if the target fails to respond to the risk-assessment scan within the variable duration; wherein the timeout is set by adding a default value with a variable value which is set as a function of the measured network conditions; wherein the timeout is set by the following algorithm:

if R_{actual} is < or > $R_{default}$ by $(R_{default} * F)$, then $T_{actual} = T_{default} + R_{actual} * N$; else $T_{actual} = T_{default}$; and where:

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R_{default} = default response duration.

R_{actual} = actual response duration.

T_{default} = default timeout value.

T_{actual} = actual timeout value.

F = deviation factor, and

N = normalizing factor.

- 29. (Currently Amended) A method of executing a risk-assessment scan with a variable timeout duration which is set based on network conditions, comprising:
- a) transmitting a probe signal from a source to a target utilizing a network, the probe signal prompting the target to send a response signal to the source utilizing the network;
- b) receiving the response signal from the target utilizing the network;
- c) measuring a response duration between the transmission of the probe signal and the receipt of the response signal;
- d) executing a risk-assessment scan including a plurality of risk-assessment scan modules;
- e) performing a risk-assessment scan-related timeout prior to making a determination that the target is failing to respond to each of the risk-assessment scan modules, wherein the timeout includes a variable duration which is set as a function of the response duration; and
- abandoning the risk-assessment scan modules if the target fails to respond to the risk-assessment scan modules within the variable duration wherein the timeout is set by adding a default value with a variable value which is set as a function of the measured network conditions;

 wherein the timeout is set by the following algorithm:

if R_{actual} is $< or > R_{default}$ by $(R_{default} * F)$, then $T_{actual} = T_{default} + R_{actual} * N$: else $T_{actual} = T_{default}$; and where:

 $R_{\text{default}} = \text{default response duration},$ $R_{\text{actual}} = \text{actual response duration},$ $T_{\text{default}} = \text{default timeout value},$

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 $T_{\text{actual}} = \text{actual timeout value}$ F = deviation factor, andN = normalizing factor.

- 30. (Currently Amended) A computer program product embodied on a computer readable medium for executing a risk-assessment scan with a variable timeout duration which is set based on network conditions, comprising:
- a) computer code for transmitting a probe signal from a source to a target utilizing a network, the probe signal prompting the target to send a response signal to the source utilizing the network:
- computer code for receiving the response signal from the target utilizing the network; b)
- computer code for measuring a response duration between the transmission of the probe c) signal and the receipt of the response signal;
- computer code for executing a risk-assessment scan including a plurality of riskd) assessment scan modules;
- e) computer code for performing a risk-assessment scan-related timeout prior to making a determination that the target is failing to respond to each of the risk-assessment scan modules, wherein the timeout includes a variable duration which is set as a function of the response duration; and
- f) computer code for abandoning the risk-assessment scan modules if the target fails to respond to the risk-assessment scan modules within the variable duration; wherein the timeout is set by adding a default value with a variable value which is set as a function of the measured network conditions; wherein the timeout is set by the following algorithm:

if Ractual is < or > Regrault by (Regrault * F). then Tactual = Tdefault + Ractual * N; else Tactual = Tdefault; and where:

> R_{default} = default response duration. $R_{\text{notual}} = \text{actual response duration}$ $T_{default} = default timeout value,$

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Tactual = actual timeout value, F = deviation factor, andN = normalizing factor.

(Previously Presented) A method of executing a risk-assessment scan with a variable 31. timeout duration which is set based on network conditions, comprising: measuring network conditions in a network coupled between a source and a target; executing a risk-assessment scan on the target from the source; and performing a risk-assessment scan-related timeout prior to making a determination that the target is failing to respond to the risk-assessment scan; wherein the timeout includes a variable duration which is set as a function of the measured network conditions: wherein the risk-assessment scan is abandoned if the target fails to respond to the riskassessment scan within the variable duration; wherein the timeout is set by the following algorithm:

> if Ractual is < or > Rdefault by (Rdefault * F), then $T_{actual} = T_{default} + R_{actual} * N;$ else Tactual = Tdefault; and where: R_{default} = default response duration, Ractual = actual response duration, T_{default} = default timeout value, T_{actual} = actual timeout value, F = deviation factor, and N = normalizing factor.

32. (Previously Presented) The method as recited in claim 1, wherein the timeout is set utilizing a plurality of network condition probes that gather multiple network condition measurements on a single target.

- 33. (Previously Presented) The method as recited in claim 1, wherein the measured network conditions are measured for an entire network segment on which a plurality of target components is located.
- 34. (Previously Presented) The method as recited in claim 1, wherein the source is capable of reducing a latency of the risk-assessment scan by setting the variable duration to a minimal value, while avoiding the abandonment of vulnerable systems reachable over high latency networks by increasing the variable duration to accommodate such scenarios.